

# Weekly Report

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## 1 Work scheduled in last week

The work scheduled in last week is listed as below:

1. To implement the feature of volume separation of VQ project.
2. Publish a basic version of Vis paper collection link.
3. Reading course materials refer to compression topic.

## 2 Introduction

We have implemented the first listed new feature and will do some tests in next week. A basic version of 2013 vis paper collection has been done and published on the web. Besides, I kept reading some course materials related to the current compression topic.

## 3 Details

After the analysis of the result of first phase of experiment in the last month, we scheduled a new feature implementation, namely, separate the large-scale volume into several small volumes first, followed by a traverse process for all the sub-volumes in which, we do the 256-size codebook vector quantitation per sub-volume. The new feature has been done and we will do some tests in some different scale volumes this week.

The vis paper collection is still going on. A basic version of link has been done and I will update it every three days.

At last, in order to find some new interesting point and consolidate the knowledge of compression field, I try to read and learn some course materials.

## 4 Conclusion and Future Work

As a summary, all the three planned work have been done in the last week. In next week, I will:

1. do some tests about the new feature, and analyse the results.
2. read the paper <Fast and Efficient Compression of Floating-Point Data>, <Fast Lossless Compression of Scientific Floating-Point Data> and <Compression Domain Volume Rendering>.
3. read the 6th para of the book <Crafting Your Research Future> and the paper <How to read a paper> and form some conclusions.
4. read the course material of compression topic.
5. help Jiangang to write the Chinese version of compression paper.

## References